

NONLINEAR EDGE-ENHANCEMENT FILTER

ABSTRACT OF THE DISCLOSURE

5 Methods and apparatus for digital data array edge enhancement are disclosed. A local data window containing a data sample s is selected. Minimum and maximum sample values, \max and \min , are located within the window, and an edge deflection value ed is defined to have a value between \max and \min . A diffusion quantity is then calculated to move the value of s towards \max , if s is greater than ed , or towards \min , if s is smaller than ed . This approach has advantages over gradient-based edge-enhancement, including simplicity, convergence speed, and stability.

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